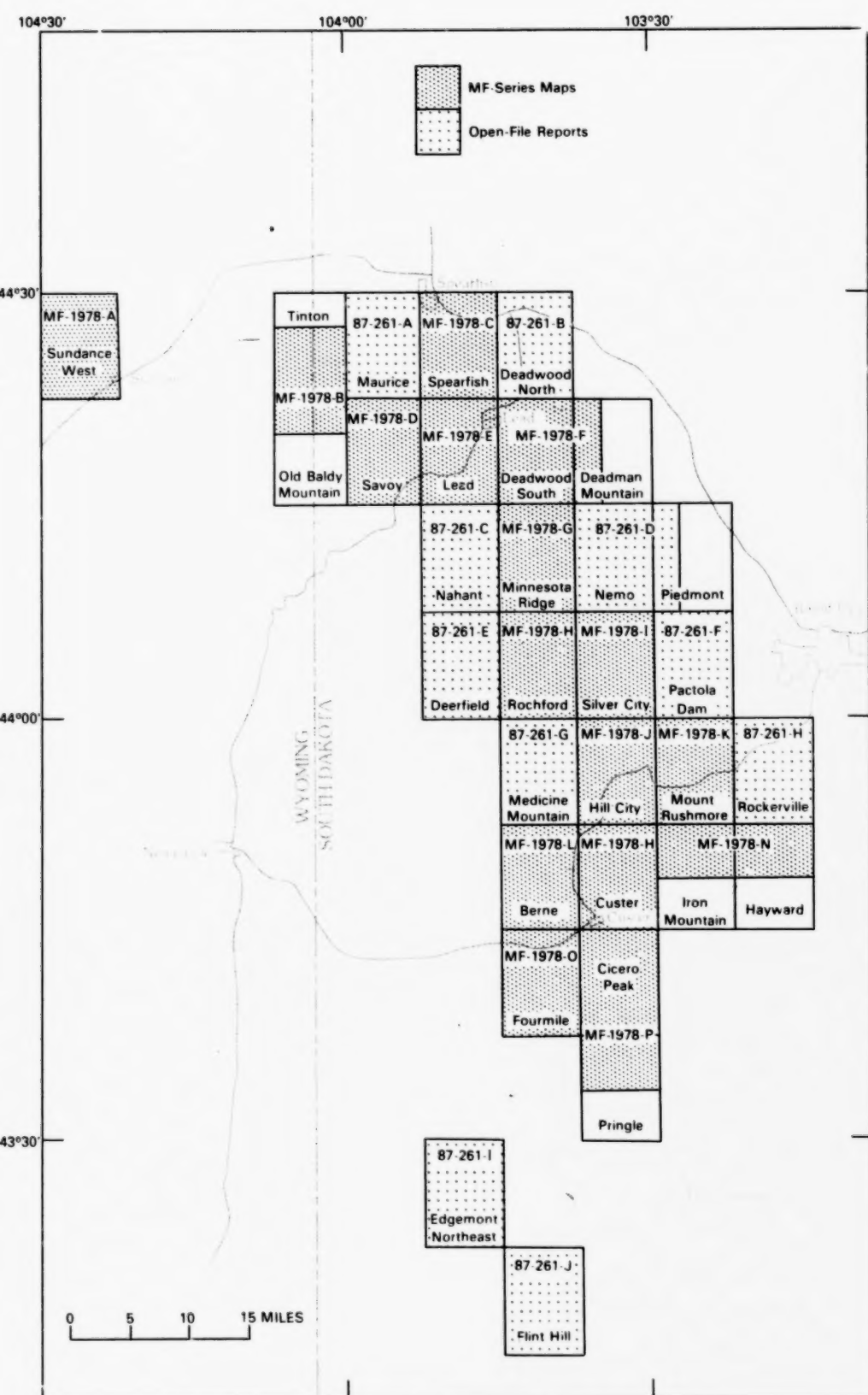




MAP OF MINES, PROSPECTS, AND PATENTED MINING CLAIMS, AND CLASSIFICATION



INDEX MAP SHOWING MINES AND PROSPECT MAPS (MF-SERIES MAPS AND OPEN-FILE REPORTS) IN THE BLACK HILLS REGION

EXPLANATION

Mine—Location known. Distinguished from prospect by name of mine and size of symbol. Alternate names or synonyms in parentheses. If there is enough space on the map, the entire mine name and synonyms are shown; otherwise, mine name may be abbreviated and synonyms deleted from map. Full mine names and all synonyms are shown in the "Alphabetic list of mines"

- Adit
- Shaft
- Open pit or other type of opening
- Quarry
- Gravel pit
- Mine—Approximate location shown. Open pit, shaft, adit, or other type of opening

Prospect

- Adit
- Trench

Patented claim—See alphabetic and numeric lists of patented claims. Asterisk (*) indicates part of claim extends into adjacent quadrangle. Dollar sign (\$) indicates most of claim in adjacent quadrangle. Boundaries between claims not shown.

Lode claim—Orientation of number parallel to long axis of claim.

Placer claim—Number approximately in center of claim.

INTRODUCTION

This map is one in a set of 26 maps (see index map) at 1:24,000 scale of the Black Hills region of South Dakota and Wyoming on which are shown a geologic classification of mines, a bibliography of mineral deposits, and locations of active and inactive mines, prospects, and patented mining claims. Some of these maps have been published as U.S. Geological Survey Miscellaneous Field Studies Maps (MF-series) and some as U.S. Geological Survey Open-File Reports (OF-series); see index map. An earlier unpublished version of this set of maps was the data base from which plate 4 (scale 1:250,000) of DeWitt and others (1986) was compiled. Subsequent to that publication the set has been revised and updated and prospects and patented claims have been added. These revised and more detailed 1:24,000-scale maps should be used for the equivalent areas of plate 4 of DeWitt and others (1986).

J. J. Norton, J. A. Redden, J. P. Gries, and V. L. Roberts reviewed the set of maps. Rob Yambick helped digitize much of the information.

SOURCES OF INFORMATION

Outlines of patented mining claims were obtained from 1:24,000-scale Forest Service Status Plates, available for inspection at the U.S. Forest Service, Rocky Mountains Region, 11,117 West 8th Avenue, Denver, CO 80225. Names of most patented claims were obtained from Wilhelm and others (1978). Other names were obtained from the Lawrence County Courthouse, Deadwood, South Dakota. Claims have been located as accurately as possible, but this map is not to be used for legal or precise locations of mining claims.

Locations of mines and prospects were compiled from all available published and unpublished data. The locations of active and inactive mines in this quadrangle were taken from Allison (1940), Connolly (1927), Connolly and O'Harra (1929), Irving (1899), Irving and Emmons (1904), Lindgard and Roberts (1970), O'Harra (1902), Shapiro and Gries (1970), U.S. Bureau of Mines (1954, 1986), and U.S. Geological Survey (1986). Also, in some instances, different sources of information gave conflicting location information for mines with the same name. Where possible, this conflict was resolved by comparing the name of the mine to adjacent patented claims, by comparing the description of the deposit to the known geology and topography of the area, or by communication with past owners of the property. In some instances, a unique location was not possible with existing information; in that event the most logical location was chosen. The location of some or many mines on this map may differ from those in present data bases such as the U.S. Bureau of Mines Mineral Inventory Location System (MILS) or the U.S. Geological Survey Mineral Resources Data System (MRDS), formerly the Computerized Resources Information Bank (CRIB).

Locations of prospects in this quadrangle were taken from Shapiro and Gries (1970) and Sofronoff (1979). Because many quadrangles, or parts of quadrangles, have not been mapped in as much detail as other quadrangles, comparison of the density of prospects from one quadrangle to another, or even within one quadrangle, is not warranted. As an example, part of a quadrangle may be shown on the map as having more prospects than another part, but the first part may have been mapped in greater detail than the second part. Similarly, a part of a quadrangle may have many prospects that are not shown on this map because the original source of information did not show prospect pits.

Geologic data for the map are from Connolly and O'Harra (1929), Barton (1909), Barton and Paige (1925), DeWitt and others (1986), Fisher (1969), Irving (1899), Irving, Emmons, and Jagger (1904), Jagger (1904), Kirchner (1971), Kulik (1965), Lisenbee (1981 and unpub. data, 1986), Meier (1981), Norton (1983), Parkhill (1976), Shapiro and Gries (1968, 1970), Simmons (1912), and Sofronoff (1979).

PRECISION OF LOCATION INFORMATION

All mine symbols except the unfilled diamond (◇) indicate that the location of the deposit is known within a 200-foot radius. The type of opening at a mine (adit, shaft, open pit, trench, and others) is designated by one of two different symbols. The unfilled diamond symbol indicates that the location is known only to within a 1/4 mile radius, and that the type of mine opening is unknown. Mines and prospects whose locations could not be verified to within less than a 1/4 mile radius were not plotted on the map.

PATENTED CLAIM AND NINE LISTS

Patented mining claims are listed both numerically and alphabetically. Mines are listed alphabetically. For ease in locating the claim or mine on the map, the legal description (section, township, range) is given.

Each patented claim on the map is represented by a number keyed to the numeric and alphabetic listings. Where possible, the claim numbers are plotted approximately in the center of the claim and parallel to its long axis. Boundaries between adjacent claims are not shown. An asterisk (*) following a claim number indicates that most of the claim is in this quadrangle, but it extends into the adjacent quadrangle. A dollar sign (\$) following a claim number indicates that most of the claim is in the adjacent quadrangle, but part of it is in this quadrangle. Claims outlined with a solid line are patented lode claims; claims outlined with a dotted line are patented placer claims. Many placer workings on unpatented claims have not been plotted on the maps, principally because the workings lacked a name.

On the map, the most common or most used name of a mine is normally next to its mine symbol. If there is space, any alternate names or synonyms are in parentheses following the most common name. On some maps, where space does not permit showing the first name or any alternate names, the names are shown by a single letter, two letters, or an abbreviation of the name; the mines are keyed to that letter or abbreviation in the alphabetic and numeric lists. Mines with more than one name have the alternate name(s) or synonym(s) shown in parentheses in the alphabetic lists. The first alternate name or synonym is also alphabetized in the alphabetic list of mines; second or third alternate names may not be alphabetized. Uncertain alternate names are not alphabetized and are followed by a query (?).

CLASSIFICATION OF MINES AND DEPOSITS

Mines and deposits are categorized according to geologic criteria of age, environment of formation, and contained metals, as in DeWitt and others (1986, p. 52-53). Deposit-type letter designations (M, S, and so on) corresponding to those in DeWitt and others (1986) for deposit types are used in the alphabetic list of mines. The criteria used for the deposit types are briefly summarized below and are explained more fully in DeWitt and others (1986).

PRINCIPAL TYPES OF DEPOSITS

M—High-calcium limestone is a bedded sedimentary deposit formed in a shallow water marine environment about 250-350 Ma (million years ago). Precipitation of calcium carbonate from seawater and accumulation of organisms rich in calcium carbonate created the deposits.

S and T—Vein and replacement deposits occur predominantly in Paleozoic strata as discordant to concordant bodies containing base and precious metals. Mineralization took place in an epithermal environment about 50-60 Ma by hydrothermal alteration and metallization of wall rocks near Tertiary intrusive bodies. S, base metal-rich deposits containing lead, zinc, and silver, and minor amounts of copper and gold. T, precious metal-rich deposits containing gold and minor amounts of silver, lead, zinc, and copper.

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Alphabetic list of mines

[Deposit-type letter designations are explained in the text]

Deposit of	Name of Mine	Location
T	Beaver Ridge Gravel Pit	Sec. 22 T5N R1E
T	Eleventh Hour	Sec. 19 T5N R2E
T	Gravel Pit	Sec. 19 T6N R2E
H	Hungry Hollow Gravel Pit	Sec. 29 T6N R2E
T	Quarry	Sec. 19 T5N R2E
T	Sam	Sec. 20 T5N R2E
T	Unnamed [American Mining]	Sec. 19 T5N R2E
T	Victoria Gold Mining	Sec. 17 T5N R2E

Alphabetic list of patented claims

[Asterisk (*) indicates that part of claim extends into adjacent quadrangle; dollar sign (\$) indicates that most of claim is in the adjacent quadrangle]

Claim number	Name of Claim	Location
082	Abi	Sec. 21 T5N R2E
082S	All	Sec. 21 T5N R2E
056	Attila	Sec. 16 T5N R2E
069	Bath	Sec. 16 T5N R2E
047	Bell	Sec. 16 T5N R2E
060	Black Bird	Sec. 21 T5N R2E
079	Black Thorn	Sec. 21 T5N R2E
058	Blue Bird	Sec. 16 T5N R2E
081	Blue Crow	Sec. 21 T5N R2E
030	Boulder Fr.	Sec. 20 T5N R2E
071	Boulders	Sec. 16 T5N R2E
064	Buffalo	Sec. 16 T5N R2E
035	Cameo No.2	Sec. 20 T5N R2E
036	Cameo No.4	Sec. 20 T5N R2E
037	Cameo No.6	Sec. 20 T5N R2E
038	Cameo No.8	Sec. 20 T5N R2E
007S	Cascade Placer	Sec. 19 T5N R2E
074	Campore	Sec. 16 T5N R2E
063	Ceazar	Sec. 16 T5N R2E
073	Chent	Sec. 16 T5N R2E
068	Claudius	Sec. 16 T5N R2E
061	Cleopatra	Sec. 16 T5N R2E
083*	Congress Placer	Sec. 9 T5N R2E
081S	Eli and Fisherman	Sec. 21 T5N R2E
050	Elkhorn No.1	Sec. 9 T5N R2E
051*	Elkhorn No.2	Sec. 9 T5N R2E
024	Erna	Sec. 20 T5N R2E
009	Erna	Sec. 19 T5N R2E
008	Erna No.2	Sec. 19 T5N R2E
032S	Favorite Fr., Magneta No.2, and May Queen	Sec. 21 T5N R2E
081S	Fisherman and Eli	Sec. 21 T5N R2E
048	Funston	Sec. 9 T5N R2E
049S	Funston No.1	Sec. 9 T5N R2E
048S	Funston No.2	Sec. 9 T5N R2E
045	Gofor	Sec. 16 T5N R2E
101S	Golden Nugget No.4	Sec. 9 T5N R1E
102S	Golden Nugget No.5	Sec. 9 T5N R1E
103S	Golden Nugget No.6	Sec. 9 T5N R1E
032*	Good Luck	Sec. 21 T5N R2E
031	Good Luck Fr.	Sec. 20 T5N R2E
054	Harmony	Sec. 16 T5N R2E
076	Havana	Sec. 21 T5N R2E
040	High	Sec. 17 T5N R2E
033	Hobo Fr.	Sec. 21 T5N R2E
068	Huston	Sec. 20 T5N R2E
061	Jay Bird	Sec. 16 T5N R2E
022	Jumbo Fr.	Sec. 20 T5N R2E
031S	Knatt	Sec. 20 T5N R2E
046	Lone Star	Sec. 17 T5N R2E
010	Lucky Boy No.2	Sec. 17 T5N R2E
032S	Magneta No.2, Favorite Fr., and May Queen	Sec. 21 T5N R2E
018	Maine No.1	Sec. 21 T5N R2E
019	Maine No.2	Sec. 20 T5N R2E
059	Mark Anthony	Sec. 16 T5N R2E
034*	May Queen No.2	Sec. 21 T5N R2E
032S	May Queen, Magneta No.2, and Favorite Fr.	Sec. 21 T5N R2E
057	Matiades	Sec. 21 T5N R2E
050*	Mono and Potatoe Bug	Sec. 9 T5N R2E
074	Moscoe and Osaka	Sec. 16 T5N R2E
055	New Pine	Sec. 16 T5N R2E
001*	No.1 Sumner	Sec. 21 T5N R1E
077S	Old Ironsides and On Guard	Sec. 21 T5N R2E
077S	On Guard and Old Ironsides	Sec. 21 T5N R2E
074	Osaka and Moscoe	Sec. 16 T5N R2E
072	Ozls Root	Sec. 16 T5N R2E
049*	Peerless	Sec. 9 T5N R2E
052	Pine No.3	Sec. 9 T5N R2E
053	Pine No.5	Sec. 9 T5N R2E
029	Po	Sec. 20 T5N R2E
050*	Potatoe Bug and Mono	Sec. 9 T5N R2E
023	Proctor	Sec. 20 T5N R2E
066	Red Cross	Sec. 16 T5N R2E
045	Rip Rap	Sec. 17 T5N R2E
028	River	Sec. 17 T5N R2E
039	Royal	Sec. 17 T5N R2E
021	Sam	Sec. 20 T5N R2E
026	San Antonio Fr.	Sec. 20 T5N R2E
078	Sardona	Sec. 21 T5N R2E
077	Sometimes	Sec. 21 T5N R2E
042	Spearfish	Sec. 17 T5N R2E
043	Spearfish No.1	Sec. 17 T5N R2E
043	Spearfish No.2	Sec. 17 T5N R2E
084	Spearfish No.4	Sec. 17 T5N R2E
084	Spearfish Placer	Sec. 17 T5N R2E
070	St. Croix	Sec. 16 T5N R2E
011	Star	Sec. 17 T5N R2E
013	Star No.1	Sec. 17 T5N R2E
014	Star No.3	Sec. 17 T5N R2E
015	Star No.4	Sec. 17 T5N R2E
016	Star No.6	Sec. 17 T5N R2E
017	Star No.7	Sec. 20 T5N R2E

012	Star No.9	Sec. 17 T5N R2E
002*	Summer	Sec. 21 T5N R1E
002*	Summer Fr.	Sec. 21 T5N R1E
004*	Summer No.1	Sec. 21 T5N R1E
005*	Summer No.2	Sec. 21 T5N R1E
006*	Summer No.3	Sec. 21 T5N R1E
093S	Summer No.4	Sec. 21 T5N R1E
094S	Summer No.5	Sec. 22 T5N R1E
095S	Summer No.6	Sec. 22 T5N R1E
096S	Summer No.7	Sec. 22 T5N R1E
097S	Summer No.8	Sec. 22 T5N R1E
098S	Summer No.9	Sec. 22 T5N R1E
099S	Summer No.10	Sec. 22 T5N R1E
100S	Summer No.11 and Summer No.12	Sec. 22 T5N R1E
100S	Summer No.12 and Summer No.11	Sec. 22 T5N R1E
085	Summer No.16	Sec. 22 T5N R1E
086	Summer No.17	Sec. 22 T5N R1E
087	Summer No.18	Sec. 22 T5N R1E
088	Summer No.19	Sec. 22 T5N R1E
089	Summer No.20	Sec. 22 T5N R1E
090	Summer No.21	Sec. 22 T5N R1E
091	Summer No.22	Sec. 21 T5N R1E
092	Summer No.23	Sec. 21 T5N R1E
067	Tarius	Sec. 16 T5N R1E
025	Utile	Sec. 20 T5N R2E
080	Whistler	Sec. 21 T5N R2E
027	York	Sec. 20 T5N R2E

Numerical list of patented claims

[Asterisk (*) indicates that part of claim extends into adjacent quadrangle; dollar sign (\$) indicates that most of claim is in the adjacent quadrangle]

Claim number	Name of Claim	Location
001*	No.1 Summer	Sec. 21 T5N R1E
002*	Summer Fr.	Sec. 21 T5N R1E
003*	Summer	Sec. 21 T5N R1E
004*	Summer No.1	Sec. 21 T5N R1E
005*	Summer No.2	Sec. 21 T5N R1E
006*	Summer No.3	Sec. 21 T5N R1E
007S	Cascade Placer	Sec. 19 T5N R2E
008	Erna No.2	Sec. 19 T5N R2E
009	Erna	Sec. 19 T5N R2E
010	Lucky Boy No.2	Sec. 17 T5N R2E
011	Star	Sec. 17 T5N R2E
012	Star No.9	Sec. 17 T5N R2E
013	Star No.1	Sec. 17 T5N R2E
014	Star No.3	Sec. 17 T5N R2E
015	Star No.4	Sec. 17 T5N R2E
016	Star No.6	Sec. 17 T5N R2E
017	Star No.7	Sec. 20 T5N R2E
018	Maine No.1	Sec. 20 T5N R2E
019	Maine No.2	Sec. 20 T5N R2E
020	Huston	Sec. 20 T5N R2E
021	Sam	Sec. 20 T5N R2E
022	Knatt	Sec. 20 T5N R2E
023	Proctor	Sec. 20 T5N R2E
024	Erna	Sec. 20 T5N R2E
025	Utile	Sec. 20 T5N R2E
026	San Antonio Fr.	Sec. 20 T5N R2E
027	York	Sec. 20 T5N R2E
028	River	Sec. 20 T5N R2E
029	Po	Sec. 20 T5N R2E
030	Boulder Fr.	Sec. 20 T5N R2E
031	Good Luck Fr.	Sec. 20 T5N R2E
031S	Jumbo Fr.	Sec. 20 T5N R2E
032*	Good Luck	Sec. 21 T5N R2E
032S	Magneta No.2, Favorite Fr., and May Queen	Sec. 21 T5N R2E
032S	Favorite Fr., Magneta No.2, and May Queen	Sec. 21 T5N R2E
032S	May Queen, Magneta No.2, and Favorite Fr.	Sec. 21 T5N R2E
033	Hobo Fr.	Sec. 21 T5N R2E
034*	May Queen No.2	Sec. 21 T5N R2E
035	Cameo No.2	Sec. 20 T5N R2E
036	Cameo No.4	Sec. 20 T5N R2E
037	Cameo No.6	Sec. 20 T5N R2E
038	Cameo No.8	Sec. 20 T5N R2E
039	Royal	Sec. 17 T5N R2E
040	High	Sec. 17 T5N R2E
041	Spearfish	Sec. 17 T5N R2E
042	Spearfish No.1	Sec. 17 T5N R2E
043	Spearfish No.2	Sec. 17 T5N R2E
044	Spearfish No.4	Sec. 17 T5N R2E
045	Rip Rap	Sec. 17 T5N R2E
046	Lone Star	Sec. 17 T5N R2E
047	Bell	Sec. 16 T5N R2E
048	Funston	Sec. 9 T5N R2E
048S	Funston No.2	Sec. 9 T5N R2E
049*	Peerless	Sec. 9 T5N R2E
049S	Funston No.1	Sec. 9 T5N R2E
050	Elkhorn No.1	Sec. 9 T5N R2E
050*	Mono and Potatoe Bug	Sec. 9 T5N R2E
050*	Potatoe Bug and Mono	Sec. 9 T5N R2E
051*	Elkhorn No.2	Sec. 9 T5N R2E
052	Pine No.3	Sec. 9 T5N R2E
053	Pine No.5	Sec. 9 T5N R2E
054	Harmony	Sec. 16 T5N R2E
055	New Pine	Sec. 16 T5N R2E
056	Attila	Sec. 16 T5N R2E
057	Matiades	Sec. 16 T5N R2E
058	Funston	Sec. 16 T5N R2E
059	Blue Bird	Sec. 16 T5N R2E
059	Mark Anthony	Sec. 16 T5N R2E
060	Black Bird	Sec. 16 T5N R2E
061	Jay Bird	Sec. 16 T5N R2E
062	Cleopatra	Sec. 16 T5N R2E
063	Ceazar	Sec. 16 T5N R2E
064	Buffallo	Sec. 16 T5N R2E
065	Gor	Sec. 16 T5N R2E
066	Red Grass	Sec. 16 T5N R2E
067	Tarius	Sec. 16 T5N R2E
068	Claudius	Sec. 16 T5N R2E
069	Bath	Sec. 16 T5N R2E
070	St. Croix	Sec. 16 T5N R2E
071	Boulder	Sec. 16 T5N R2E
072	Owls Roost	Sec. 16 T5N R2E
073	Chent	Sec. 16 T5N R2E
074	Osaka and Moscoe	Sec. 16 T5N R2E
075	Moscoe and Osaka	Sec. 16 T5N R2E
076	Campore	Sec. 21 T5N R2E
077	Havana	Sec. 21 T5N R2E
077	Sometimes	Sec. 21 T5N R2E
077S	On Guard and Old Ironsides	Sec. 21 T5N R2E
077S	Old Ironsides and On Guard	Sec. 21 T5N R2E
078	Sardona	Sec. 21 T5N R2E
079	Black Thorn	Sec. 21 T5N R2E
080	Whistler	Sec. 21 T5N R2E
081	Blue Crow	Sec. 21 T5N R2E
081S	Elk and Fisherman	Sec. 21 T5N R2E
081S	Fisher and Eli	Sec. 21 T5N R2E
082	Abi	Sec. 21 T5N R2E
082S	Abi	Sec. 21 T5N R2E
083	Congress Placer	Sec. 9 T5N R2E
084	Spearfish Placer	Sec. 17 T5N R2E
085	Summer No.16	Sec. 22 T5N R1E
086	Summer No.17	Sec. 22 T5N R1E
087	Summer No.18	Sec. 22 T5N R1E
088	Summer No.19	Sec. 22 T5N R1E
089	Summer No.20	Sec. 22 T5N R1E
090	Summer No.21	Sec. 22 T5N R1E
091	Summer No.22	Sec. 21 T5N R1E
092	Summer No.23	Sec. 21 T5N R1E
093S	Summer No.4	Sec. 21 T5N R1E
094S	Summer No.5	Sec. 22 T5N R1E
095S	Summer No.6	Sec. 22 T5N R1E
096S	Summer No.7	Sec. 22 T5N R1E
097S	Summer No.8	Sec. 22 T5N R1E
098S	Summer No.9	Sec. 22 T5N R1E
099S	Summer No.10	Sec. 22 T5N R1E
100S	Summer No.11 and Summer No.12	Sec. 22 T5N R1E
101S	Golden Nugget No.4	Sec. 9 T5N R1E
102S	Golden Nugget No.5	Sec. 9 T5N R1E
103S	Golden Nugget No.9	Sec. 9 T5N R1E